

Title (en)
Homopolar variable reluctance sensor.

Title (de)
Homopolarer veränderlicher Reluktanzgeber.

Title (fr)
Capteur réductant homopolaire.

Publication
EP 0527673 B1 19950607 (FR)

Application
EP 92402234 A 19920805

Priority
FR 9110174 A 19910809

Abstract (en)
[origin: EP0527673A1] Homopolar variable reluctance sensor characterised in that it comprises a rotor made of a magnetic material comprising a cylindrical 12 body (10) fitted at a first end with a laminated part (13) comprising as many lobes (13A, 13B) as there are pairs of poles of the sensor, and at a second end with a ring (14), and a stator (20) made of a magnetic material comprising a cylindrical portion (21) fitted with an excitation winding (35) supplied with an A.C. voltage or current, the stator furthermore comprising a first ring (22), fitted with notches (23), the said first ring defining with the said laminated part (13), a first air gap (31), the stator comprising a second smooth ring (24) defining with the second rotor ring (14) a second air gap (32), the stator notches (23) being fitted with a winding chosen so that the voltage which is induced is sinusoidal and free from harmonics, the envelope of this voltage representing, to within a phase shift, the image of the position of the rotor with respect to the stator.
<IMAGE>

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G01D 5/20

IPC 8 full level
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CPC (source: EP US)
G01D 5/2046 (2013.01 - EP US); **G01D 5/2053** (2013.01 - EP US)

Cited by
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